

AMENDMENT OF SOLICITATION		1. ID CODE		PAGE 1 OF 2 PAGES	
2. AMENDMENT NO. 005		3. EFFECTIVE DATE		4. REQUISITION/PURCHASE REQ. NO.	
5. PROJECT NO. (If applicable)		6. ISSUED BY CODE		7. ADMINISTERED BY (If other than Item 6) CODE	
U.S. DEPARTMENT OF ENERGY NATIONAL ENERGY TECHNOLOGY LABORATORY PO BOX 10940; MS: 921-107 PITTSBURGH PA 15236-0940					
8. NAME AND ADDRESS OF RECIPIENT (No., street, county, State, and ZIP Code)				(✓)	9A. AMENDMENT OF SOLICITATION NO. DE-PS26-00NT40758
				X	9B. DATED (See Item 11) 2/4/00
					10A.
CODE					10B.
FACILITY CODE					

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

■ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Applications □ is extended, ■ is not extended.

Applicants must acknowledge receipt of this amendment in accordance with Section III, Article C.1 F, Acknowledgment of Amendments.

(a) By completing Items 8 and 15, and returning 1 copy of the amendment; (b) By acknowledging receipt of this amendment on each copy of the application submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF APPLICATIONS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an application already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF INSTRUMENTS,
IT MODIFIES THE INSTRUMENT NO. AS DESCRIBED IN ITEM 14.

(✓)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED INSTRUMENT IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14.
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Recipient □ is not, □ is required to sign this document and return copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION

The purpose of this amendment is to delete Program Area of Interest Topic 2 located in Section VI, Attachment A.

(See Page 2 for details)

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Raymond D. Johnson Contracting Officer	
15B. APPLICANT	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA Original signed by	16C. DATE SIGNED 11/16/2000
(Signature of person authorized to sign)		(Signature of Contracting Officer)	

- 1) **SECTION VI - ATTACHMENTS** is deleted and replaced by the following:

ATTACHMENT A

PROGRAM AREAS OF INTEREST

DOE is seeking proposals to assist the U.S. energy and automotive industries in developing the technology basis for producing **Ultra-Clean Transportation Fuels** and **Innovative Emission Control Systems** for existing and advanced transportation engine power plants. This initiative expects to build on current DOE programs in the Office of Fossil Energy's *Oil Processing, Natural Gas-to-Liquids, and Coal Based Transportation Fuels and Chemicals programs*, and the Office of Energy Efficiency and Renewable's *Advanced Automotive and Heavy Vehicles Technology programs*. Where DOE's intent is to focus on the development of clean transportation fuels; the development and integration of these fuels into the existing infrastructure and their verification are recognized as essential elements.

With this solicitation DOE is seeking proposals that focus on the following topics:

Topic 1 Development and verification of emerging ultra-clean liquid transportation fuels production technologies and subsequent validation of those fuels. Investigation of hydrocarbon processing technologies under this topic area shall lead to pre-commercial scale production of ultra-clean liquid fuels and subsequent laboratory validation and/or subsequent fleet testing. Proposing teams should address integration with existing infrastructure, and verification of technologies that will be used in refineries an/or fuel production facilities.

Topic 2 **Deleted**

Topic 3 Development of new and innovative emission control systems that, *with the advanced clean fuels to be developed*, allow vehicles with advanced compression ignition direct injection (CIDI) engines to certify EPA Tier 2 emissions standards below with no greater than 10% reduction in fuel economy:

Performance Target	Units	EPA Tier II Bin 5
Tailpipe NOx Emissions ^a	g/mile	0.07
Tailpipe PM Emissions	g/mile	0.01
Emission Control Cost ^b	\$/kW	4
Durability	Hours	>5000

^a Emissions based on the Federal Test Procedure for light-duty vehicles. Engine size must be a minimum of 55 kW, and vehicle size must be the same or larger than that specified in DOE's Program for a New Generation Vehicle (PNGV). Emissions results may be generated from engine dynamometer testing if the proposer demonstrates good correlation with vehicle testing. ^b Assuming production volume of 500,000 per year.

The ***ultra-clean transportation fuel systems*** sought will include design, integration with existing infrastructure, and verification of technologies to be used in refineries or fuels production facilities over the next 20 years. The ***emission control technologies*** sought will, with its advanced clean fuel and CIDI engine components, allow DOE to achieve the emissions research targets cited above.

Important Notice: Interested parties and potential applicants to solicitations under DOE's Fuels Programs are encouraged to check the NETL web page regularly for notices of new solicitations. Amendment 005 (See Below) to the Ultra-Clean Transportation Fuels solicitation deletes Area of Interest Task 2 for the final round of applications due January 4, 2001. For those potential applicants with an interest in the now deleted Task 2, NETL anticipates issuing a solicitation during FY2001 which would expand opportunities for applicants in this area.

Amendment 005 to Solicitation DE-PS26-99FT40758

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Performance Target	Units	EPA Tier II Bin 5
Tailpipe NOx Emissions ^a	g/mile	0.07
Tailpipe PM Emissions	g/mile	0.01
Emission Control Cost ^b	\$/kW	4
Durability	Hours	>5000

^a Emissions based on the Federal Test Procedure for light-duty vehicles. Engine size must be a minimum of 55 kW, and vehicle size must be the same or larger than that specified in DOE's Program for a New Generation Vehicle (PNGV). Emissions results may be generated from engine dynamometer testing if the proposer demonstrates good correlation with vehicle testing.

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-----End of Amendment-----